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 Arg Ala Gly Glu Ser Gln Asp Lys Cys Thr Tyr Thr Phe Ile Val
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 Pro Gln Gln Arg Val Thr Gly Ala Ile Cys Val Asn Ser Lys Glu
 65 70 75
 Pro Glu Val Leu Leu Glu Asn Arg Val His Lys Gln Glu Leu Glu
 80 85 90
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 95 100 105
 Leu Gln Gln Leu Val Glu Val Asp Gly Gly Ile Val Ser Glu Val
 110 115 120
 Lys Leu Leu Arg Lys Glu Ser Arg Asn Met Asn Ser Arg Val Thr
 125 130 135

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 Arg Pro Glu Pro Gln Leu Lys Gly Ile Val Thr Lys Leu Tyr Ser
 65 70 75
 Arg Gln Gly Tyr His Leu Gln Leu Gln Ala Asp Gly Thr Ile Asp
 80 85 90
 Gly Thr Lys Asp Glu Asp Ser Thr Tyr Thr Leu Phe Asn Leu Ile
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 Pro Val Gly Leu Arg Val Val Ala Ile Gln Gly Val Gln Thr Lys
 110 115 120
 Leu Tyr Leu Ala Met Asn Ser Glu Gly Tyr Leu Tyr Thr Ser Glu
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 155 160 165
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35 40 45
Cys Arg Thr Ile Pro Glu Ala Cys Arg Gly Asp Met Met Cys Val
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Tyr	Arg	Gly	Pro	Tyr	Ser	Asn	Pro	Tyr	Ser	Thr	Pro	Tyr	Ser	Gly	
				80					85					90	
Pro	Tyr	Pro	Ala	Ala	Ala	Pro	Pro	Leu	Ser	Ala	Pro	Asn	Tyr	Pro	
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Thr	Ile	Ser	Arg	Pro	Leu	Ile	Cys	Arg	Phe	Gly	Tyr	Gln	Met	Asp	
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Cys	Ala	Asn	Val	Pro	Gly	Ser	Tyr	Ser	Cys	Thr	Cys	Asn	Pro	Gly	
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Phe	Thr	Leu	Asn	Glu	Asp	Gly	Arg	Ser	Cys	Gln	Asp	Val	Asn	Glu	
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Cys	Ala	Thr	Glu	Asn	Pro	Cys	Val	Gln	Thr	Cys	Val	Asn	Thr	Tyr	
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Gly	Ser	Leu	Ile	Cys	Arg	Cys	Asp	Pro	Gly	Tyr	Glu	Leu	Glu	Glu	
				230					235					240	
Asp	Gly	Val	His	Cys	Ser	Asp	Met	Asp	Glu	Cys	Ser	Phe	Ser	Glu	
				245					250					255	
Phe	Leu	Cys	Gln	His	Glu	Cys	Val	Asn	Gln	Pro	Gly	Thr	Tyr	Phe	
				260					265					270	
Cys	Ser	Cys	Pro	Pro	Gly	Tyr	Ile	Leu	Leu	Asp	Asp	Asn	Arg	Ser	
				275					280					285	
Cys	Gln	Asp	Ile	Asn	Glu	Cys	Glu	His	Arg	Asn	His	Thr	Cys	Asn	
				290					295					300	
Leu	Gln	Gln	Thr	Cys	Tyr	Asn	Leu	Gln	Gly	Gly	Phe	Lys	Cys	Ile	
				305					310					315	
Asp	Pro	Ile	Arg	Cys	Glu	Glu	Pro	Tyr	Leu	Arg	Ile	Ser	Asp	Asn	
				320					325					330	
Arg	Cys	Met	Cys	Pro	Ala	Glu	Asn	Pro	Gly	Cys	Arg	Asp	Gln	Pro	
				335					340					345	
Phe	Thr	Ile	Leu	Tyr	Arg	Asp	Met	Asp	Val	Val	Ser	Gly	Arg	Ser	

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 atcgtgtggc tcaagacatg ggccctgacc acggccgtgt ccatcccga 1000
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<210> 17
 <211> 428
 <212> PRT
 <213> Homo Sapien

<400> 17
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 Ala Gln Ala Cys Pro Glu Pro Cys Asp Cys Gly Glu Lys Tyr Gly
 20 25 30
 Phe Gln Ile Ala Asp Cys Ala Tyr Arg Asp Leu Glu Ser Val Pro
 35 40 45
 Pro Gly Phe Pro Ala Asn Val Thr Thr Leu Ser Leu Ser Ala Asn
 50 55 60
 Arg Leu Pro Gly Leu Pro Glu Gly Ala Phe Arg Glu Val Pro Leu
 65 70 75
 Leu Gln Ser Leu Trp Leu Ala His Asn Glu Ile Arg Thr Val Ala
 80 85 90
 Ala Gly Ala Leu Ala Ser Leu Ser His Leu Lys Ser Leu Asp Leu
 95 100 105
 Ser His Asn Leu Ile Ser Asp Phe Ala Trp Ser Asp Leu His Asn
 110 115 120
 Leu Ser Ala Leu Gln Leu Leu Lys Met Asp Ser Asn Glu Leu Thr
 125 130 135
 Phe Ile Pro Arg Asp Ala Phe Arg Ser Leu Arg Ala Leu Arg Ser
 140 145 150
 Leu Gln Leu Asn His Asn Arg Leu His Thr Leu Ala Glu Gly Thr
 155 160 165
 Phe Thr Pro Leu Thr Ala Leu Ser His Leu Gln Ile Asn Glu Asn
 170 175 180
 Pro Phe Asp Cys Thr Cys Gly Ile Val Trp Leu Lys Thr Trp Ala
 185 190 195
 Leu Thr Thr Ala Val Ser Ile Pro Glu Gln Asp Asn Ile Ala Cys
 200 205 210
 Thr Ser Pro His Val Leu Lys Gly Thr Pro Leu Ser Arg Leu Pro
 215 220 225

<220>
 <223> Synthetic oligonucleotide probe

<400> 19
 ccaatgtgtg caagcggtg tg 22

<210> 20
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 20
 tcaagagcct ggacctcagc cacaatctca tctctgactt tgccctggagc 50

<210> 21
 <211> 2033
 <212> DNA
 <213> Homo Sapien

<400> 21
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 tgccggcacga ggagttttcc cggcagcgag gaggtcctga gcagcatggc 150
 ccggaggagc gccttccctg ccgccgcgct ctggctcttg agcatectcc 200
 tgtgcctgct ggcactgcgg gcggaggccg ggccgccgca ggaggagagc 250
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 atttcagaaa agcgcaacag agaatgccag ctattcctgt caatatccat 400
 tccatgaatt ttacctggca agctgcaggg caggcagaat acttctatga 450
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 atatattcta aacacaatga aatagggat ataattgtat aactttttgc 1900
 attggcttga agcaatataa tatattgtaa acaaacacac gctcttacct 1950
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 ttttttggaa aaaaaaaaaa aaaaaaaaaa aaa 2033

<210> 22
 <211> 379
 <212> PRT
 <213> Homo Sapien

<400> 22
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 Ser Ile Leu Leu Cys Leu Leu Ala Leu Arg Ala Glu Ala Gly Pro
 20 25 30

Pro	Gln	Glu	Glu	Ser 35	Leu	Tyr	Leu	Trp	Ile 40	Asp	Ala	His	Gln	Ala 45
Arg	Val	Leu	Ile	Gly 50	Phe	Glu	Glu	Asp	Ile 55	Leu	Ile	Val	Ser	Glu 60
Gly	Lys	Met	Ala	Pro 65	Phe	Thr	His	Asp	Phe 70	Arg	Lys	Ala	Gln	Gln 75
Arg	Met	Pro	Ala	Ile 80	Pro	Val	Asn	Ile	His 85	Ser	Met	Asn	Phe	Thr 90
Trp	Gln	Ala	Ala	Gly 95	Gln	Ala	Glu	Tyr	Phe 100	Tyr	Glu	Phe	Leu	Ser 105
Leu	Arg	Ser	Leu	Asp 110	Lys	Gly	Ile	Met	Ala 115	Asp	Pro	Thr	Val	Asn 120
Val	Pro	Leu	Leu	Gly 125	Thr	Val	Pro	His	Lys 130	Ala	Ser	Val	Val	Gln 135
Val	Gly	Phe	Pro	Cys 140	Leu	Gly	Lys	Gln	Asp 145	Gly	Val	Ala	Ala	Phe 150
Glu	Val	Asp	Val	Ile 155	Val	Met	Asn	Ser	Glu 160	Gly	Asn	Thr	Ile	Leu 165
Gln	Thr	Pro	Gln	Asn 170	Ala	Ile	Phe	Phe	Lys 175	Thr	Cys	Gln	Gln	Ala 180
Glu	Cys	Pro	Gly	Gly 185	Cys	Arg	Asn	Gly	Gly 190	Phe	Cys	Asn	Glu	Arg 195
Arg	Ile	Cys	Glu	Cys 200	Pro	Asp	Gly	Phe	His 205	Gly	Pro	His	Cys	Glu 210
Lys	Ala	Leu	Cys	Thr 215	Pro	Arg	Cys	Met	Asn 220	Gly	Gly	Leu	Cys	Val 225
Thr	Pro	Gly	Phe	Cys 230	Ile	Cys	Pro	Pro	Gly 235	Phe	Tyr	Gly	Val	Asn 240
Cys	Asp	Lys	Ala	Asn 245	Cys	Ser	Thr	Thr	Cys 250	Phe	Asn	Gly	Gly	Thr 255
Cys	Phe	Tyr	Pro	Gly 260	Lys	Cys	Ile	Cys	Pro 265	Pro	Gly	Leu	Glu	Gly 270
Glu	Gln	Cys	Glu	Ile 275	Ser	Lys	Cys	Pro	Gln 280	Pro	Cys	Arg	Asn	Gly 285
Gly	Lys	Cys	Ile	Gly 290	Lys	Ser	Lys	Cys	Lys 295	Cys	Ser	Lys	Gly	Tyr 300
Gln	Gly	Asp	Leu	Cys 305	Ser	Lys	Pro	Val	Cys 310	Glu	Pro	Gly	Cys	Gly 315
Ala	His	Gly	Thr	Cys	His	Glu	Pro	Asn	Lys	Cys	Gln	Cys	Gln	Glu

	320		325		330
Gly Trp His Gly Arg His Cys Asn Lys Arg Tyr Glu Ala Ser Leu					
	335		340		345
Ile His Ala Leu Arg Pro Ala Gly Ala Gln Leu Arg Gln His Thr					
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Pro Ser Leu Lys Lys Ala Glu Glu Arg Arg Asp Pro Pro Glu Ser					
	365		370		375

Asn Tyr Ile Trp

<210> 23
 <211> 783
 <212> DNA
 <213> Homo Sapien

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 ctggaattga ggctgagcca aagaccccag ggccgtctca gtctcataaa 200
 aggggatcag gcaggaggag tttgggagaa acctgagaag ggctgattt 250
 gcagcatcat gatgggcctc tccttggcct ctgctgtgct cctggcctcc 300
 ctcttgagtc tccaccttgg aactgccaca cgtgggagtg acatatccaa 350
 gacctgtgct ttccaataca gccacaagcc ccttccctgg acctgggtgc 400
 gaagctatga attcaccagt aacagctgct cccagcgggc tgtgatattc 450
 actacaaaaa gaggcaagaa agtctgtacc catccaagga aaaaatgggt 500
 gcaaaaaatac atttctttac tgaaaactcc gaaacaattg tgactcagct 550
 gaattttcat ccgaggacgc ttggaccccg ctcttggctc tgcagccctc 600
 tggggagcct gcggaatctt ttctgaaggc tacatggacc cgctggggag 650
 gagaggggtg ttctcccag agttacttta ataaagggtg ttcatagagt 700
 tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 750
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 783

<210> 24
 <211> 94
 <212> PRT
 <213> Homo Sapien

<400> 24

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ataggctgag gcaggtggat tgcttgagct cgggagtttg agaccagcct 1600
catcaacaca gtgaaactcc atctcaattt aaaaagaaaa aaagtgggtt 1650
taggatgtca ttctttgcag ttcttcatca tgagacaagt ctttttttct 1700
gcttcttata ttgcaagctc catctctact ggtgtgtgca tttaatgaca 1750
tctaactaca gatgccgcac agccacaatg ctttgcctta tagtttttta 1800
actttagaac gggattatct tggtattacc tgtattttca gtttcggata 1850
tttttgactt aatgatgaga ttatcaagac gtagccctat gctaagtcac 1900
gagcatatgg acttacgagg gttcgactta gagttttgag ctttaagata 1950
ggattattgg ggcttaccac caccttaatt agagaaacat ttatattgct 2000
tactactgta ggctgtacat ctcttttccg atttttgtat aatgatgtaa 2050
acatggaaaa actttaggaa atgcacttat taggctgttt acatgggttg 2100
cctggatata aatcagcagt caaaaatgac taaaaatata actagtgcag 2150
gagggagaaa tctctcctct gtgggaggca cttactgcat tccagttctc 2200
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aaggcattgt	gtgttttgtt	ccgggactgg	tttggtctggg	acaaagttag	3050
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<210> 29
<211> 386
<212> PRT
<213> Homo Sapien
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<400>	29													
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Ala	Gly	Arg	Tyr	Pro	Gly	Ala	Arg	Thr	Ala	Ser	Gly	Thr	Arg	Pro
				20					25					30
Trp	Leu	Leu	Asp	Pro	Lys	Ile	Leu	Lys	Phe	Val	Val	Phe	Ile	Val
				35					40					45
Ala	Val	Leu	Leu	Pro	Val	Arg	Val	Asp	Ser	Ala	Thr	Ile	Pro	Arg
				50					55					60
Gln	Asp	Glu	Val	Pro	Gln	Gln	Thr	Val	Ala	Pro	Gln	Gln	Gln	Arg
				65					70					75
Arg	Ser	Leu	Lys	Glu	Glu	Glu	Cys	Pro	Ala	Gly	Ser	His	Arg	Ser
				80					85					90
Glu	Tyr	Thr	Gly	Ala	Cys	Asn	Pro	Cys	Thr	Glu	Gly	Val	Asp	Tyr
				95					100					105
Thr	Ile	Ala	Ser	Asn	Asn	Leu	Pro	Ser	Cys	Leu	Leu	Cys	Thr	Val
				110					115					120

<220>

<223> Synthetic oligonucleotide probe

<400> 30

cataaaagtt cctgcacccat gaccagagac acagtgtgtc agtgtaaaga 50

<210> 31

<211> 963

<212> DNA

<213> Homo Sapien

<400> 31

gcggcacctg gaagatgcgc ccattggctg gtggcctgct caagggtggtg 50

ttcgtggtct tcgcctcctt gtgtgcctgg tattcgggggt acctgctcgc 100

agagctcatt ccagatgcac ccctgtccag tgctgcctat agcatccgca 150

gcatcgggga gaggcctgtc ctcaaagctc cagtccccaa aaggcaaaaa 200

tgtgaccact ggactccctg cccatctgac acctatgcct acaggttact 250

cagcggaggt ggcagaagca agtacgcaa aatctgcttt gaggataacc 300

tacttatggg agaacagctg ggaaatgttg ccagaggaat aaacattgcc 350

attgtcaact atgtaactgg gaatgtgaca gcaacacgat gttttgatat 400

gtatgaaggc gataactctg gaccgatgac aaagtttatt cagagtgtctg 450

ctccaaaatc cctgctcttc atgggtgacct atgacgacgg aagcacaaga 500

ctgaataacg atgccaagaa tgccatagaa gcacttggaa gtaaagaaat 550

caggaacatg aaattcaggt ctagctgggt atttattgca gcaaaaggct 600

tggaactccc ttccgaaatt cagagagaaa agatcaacca ctctgatgct 650

aagaacaaca gatattcttg ctggcctgca gagatccaga tagaaggctg 700

catacccaaa gaacgaagct gacactgcag ggtcctgagt aaatgtgttc 750

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ccaacagccc atatttgatg agtatcttgg gtttggtgta aaccaatgaa 850

catttgctag ttgtatcaaa tcttggtacg cagtatcttt ataccagtat 900

tttatgtagt gaagatgtca attagcagga aactaaaatg aatggaaatt 950

cttaaaaaaa aaa 963

<210> 32

<211> 235

<212> PRT

<213> Homo Sapien

<400> 32

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Phe	Ala	Ser	Leu	Cys	Ala	Trp	Tyr	Ser	Gly	Tyr	Leu	Leu	Ala	Glu	20	25	30	
Leu	Ile	Pro	Asp	Ala	Pro	Leu	Ser	Ser	Ala	Ala	Tyr	Ser	Ile	Arg	35	40	45	
Ser	Ile	Gly	Glu	Arg	Pro	Val	Leu	Lys	Ala	Pro	Val	Pro	Lys	Arg	50	55	60	
Gln	Lys	Cys	Asp	His	Trp	Thr	Pro	Cys	Pro	Ser	Asp	Thr	Tyr	Ala	65	70	75	
Tyr	Arg	Leu	Leu	Ser	Gly	Gly	Gly	Arg	Ser	Lys	Tyr	Ala	Lys	Ile	80	85	90	
Cys	Phe	Glu	Asp	Asn	Leu	Leu	Met	Gly	Glu	Gln	Leu	Gly	Asn	Val	95	100	105	
Ala	Arg	Gly	Ile	Asn	Ile	Ala	Ile	Val	Asn	Tyr	Val	Thr	Gly	Asn	110	115	120	
Val	Thr	Ala	Thr	Arg	Cys	Phe	Asp	Met	Tyr	Glu	Gly	Asp	Asn	Ser	125	130	135	
Gly	Pro	Met	Thr	Lys	Phe	Ile	Gln	Ser	Ala	Ala	Pro	Lys	Ser	Leu	140	145	150	
Leu	Phe	Met	Val	Thr	Tyr	Asp	Asp	Gly	Ser	Thr	Arg	Leu	Asn	Asn	155	160	165	
Asp	Ala	Lys	Asn	Ala	Ile	Glu	Ala	Leu	Gly	Ser	Lys	Glu	Ile	Arg	170	175	180	
Asn	Met	Lys	Phe	Arg	Ser	Ser	Trp	Val	Phe	Ile	Ala	Ala	Lys	Gly	185	190	195	
Leu	Glu	Leu	Pro	Ser	Glu	Ile	Gln	Arg	Glu	Lys	Ile	Asn	His	Ser	200	205	210	
Asp	Ala	Lys	Asn	Asn	Arg	Tyr	Ser	Gly	Trp	Pro	Ala	Glu	Ile	Gln	215	220	225	
Ile	Glu	Gly	Cys	Ile	Pro	Lys	Glu	Arg	Ser	230	235							

<210> 33

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 33

ggctggcctg cagagatc 18

<210> 34
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 34
 aatgtgacca ctggactccc 20

<210> 35
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 35
 aggcttgga ctcccttc 18

<210> 36
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 36
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<210> 37
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 37
 aatccctgct cttcatggtg acctatgacg acggaagcac aagactg 47

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 <211> 1215
 <212> DNA
 <213> Homo Sapien

<400> 38
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 gctccaccgg ggctgctgc cctccggctc ctgctgttcg tggcgtacc 200

cgctccggc	tggctgacga	cgggcgcccc	cgagccgccc	ccgctgtccg	250
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gctgtcagac	tttgatagtg	aagaatgaaa	atcttgaaaa	tttggaggaa	450
aaagaatatt	ttggaattgt	cagtgttaagg	attttagttc	atgagtggcc	500
tatgacatct	ggttccagtt	tgcaactaat	tgtcattcaa	gaagaggtag	550
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<210> 39
<211> 330
<212> PRT
<213> Homo Sapien
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Glu Pro Pro Pro Leu Ser Gly Ala Pro Gln Asp Gly Ile Arg Ile
          35          40          45

Asn Val Thr Thr Leu Lys Asp Asp Gly Asp Ile Ser Lys Gln Gln

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				50					55					60
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Asp	Leu	Pro	Val	Asn 80	Ser	Gly	Val	Thr	Arg 85	Ile	Ser	Cys	Gln	Thr 90
Leu	Ile	Val	Lys	Asn 95	Glu	Asn	Leu	Glu	Asn 100	Leu	Glu	Glu	Lys	Glu 105
Tyr	Phe	Gly	Ile	Val 110	Ser	Val	Arg	Ile	Leu 115	Val	His	Glu	Trp	Pro 120
Met	Thr	Ser	Gly	Ser 125	Ser	Leu	Gln	Leu	Ile 130	Val	Ile	Gln	Glu	Glu 135
Val	Val	Glu	Ile	Asp 140	Gly	Lys	Gln	Val	Gln 145	Gln	Lys	Asp	Val	Thr 150
Glu	Ile	Asp	Ile	Leu 155	Val	Lys	Asn	Arg	Gly 160	Val	Leu	Arg	His	Ser 165
Asn	Tyr	Thr	Leu	Pro 170	Leu	Glu	Glu	Ser	Met 175	Leu	Tyr	Ser	Ile	Ser 180
Arg	Asp	Ser	Asp	Ile 185	Leu	Phe	Thr	Leu	Pro 190	Asn	Leu	Ser	Lys	Lys 195
Glu	Ser	Val	Ser	Ser 200	Leu	Gln	Thr	Thr	Ser 205	Gln	Tyr	Leu	Ile	Arg 210
Asn	Val	Glu	Thr	Thr 215	Val	Asp	Glu	Asp	Val 220	Leu	Pro	Gly	Lys	Leu 225
Pro	Glu	Thr	Pro	Leu 230	Arg	Ala	Glu	Pro	Pro 235	Ser	Ser	Tyr	Lys	Val 240
Met	Cys	Gln	Trp	Met 245	Glu	Lys	Phe	Arg	Lys 250	Asp	Leu	Cys	Arg	Phe 255
Trp	Ser	Asn	Val	Phe 260	Pro	Val	Phe	Phe	Gln 265	Phe	Leu	Asn	Ile	Met 270
Val	Val	Gly	Ile	Thr 275	Gly	Ala	Ala	Val	Val 280	Ile	Thr	Ile	Leu	Lys 285
Val	Phe	Phe	Pro	Val 290	Ser	Glu	Tyr	Lys	Gly 295	Ile	Leu	Gln	Leu	Asp 300
Lys	Val	Asp	Val	Ile 305	Pro	Val	Thr	Ala	Ile 310	Asn	Leu	Tyr	Pro	Asp 315
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<210> 40														
<211> 2498														

<212> DNA
<213> Homo Sapien

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<210> 41

<211> 263

<212> PRT

<213> Homo Sapien

<400> 41

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Ala	Leu	Ala	Trp	Ala	Val	Gly	Phe	Val	Ser	Ser	Met	Gly	Ser	Gly
				20					25					30

Asn Pro Ala Pro Gly Gly Val Cys Trp Leu Gln Gln Gly Gln Glu
35 40 45

Ala Thr Cys Ser Leu Val Leu Gln Thr Asp Val Thr Arg Ala Glu
50 55 60

Cys Cys Ala Ser Gly Asn Ile Asp Thr Ala Trp Ser Asn Leu Thr
65 70 75

His Pro Gly Asn Lys Ile Asn Leu Leu Gly Phe Leu Gly Leu Val
80 85 90

His Cys Leu Pro Cys Lys Asp Ser Cys Asp Gly Val Glu Cys Gly
95 100 105

Pro Gly Lys Ala Cys Arg Met Leu Gly Gly Arg Pro Arg Cys Glu
110 115 120

Cys Ala Pro Asp Cys Ser Gly Leu Pro Ala Arg Leu Gln Val Cys
125 130 135

Gly Ser Asp Gly Ala Thr Tyr Arg Asp Glu Cys Glu Leu Arg Ala
140 145 150

Ala Arg Cys Arg Gly His Pro Asp Leu Ser Val Met Tyr Arg Gly
155 160 165

Arg Cys Arg Lys Ser Cys Glu His Val Val Cys Pro Arg Pro Gln
170 175 180

Ser Cys Val Val Asp Gln Thr Gly Ser Ala His Cys Val Val Cys
185 190 195

Arg Ala Ala Pro Cys Pro Val Pro Ser Ser Pro Gly Gln Glu Leu
200 205 210

Cys Gly Asn Asn Asn Val Thr Tyr Ile Ser Ser Cys His Met Arg
215 220 225

Gln Ala Thr Cys Phe Leu Gly Arg Ser Ile Gly Val Arg His Ala
230 235 240

Gly Ser Cys Ala Gly Thr Pro Glu Glu Pro Pro Gly Gly Glu Ser
245 250 255

Ala Glu Glu Glu Glu Asn Phe Val
260

<210> 42
<211> 20
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 42
tcctgtgagc acgtggtgtg 20

<210> 43
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide probe

 <400> 43
 ggggtgggata gacctgcg 18

 <210> 44
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide probe

 <400> 44
 aaggccaaga aggctgcc 18

 <210> 45
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide probe

 <400> 45
 ccaggcctgc agaccag 18

 <210> 46
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide probe

 <400> 46
 cttcctcagt ccttcagga tatc 24

 <210> 47
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide probe

 <400> 47
 aagctggata tcctccgtgt tgtc 24

 <210> 48
 <211> 27
 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 48

cctgaagagg catgactgct tttctca 27

<210> 49

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 49

ggggataaac ctattaatta ttgctac 27

<210> 50

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 50

aacgtcacct acatctcttc gtgccacatg cgccaggcca cctg 44

<210> 51

<211> 1690

<212> DNA

<213> Homo Sapien

<400> 51

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<210> 52
 <211> 505
 <212> PRT
 <213> Homo Sapien

<400> 52
 Met Gly Arg Val Val Ala Glu Leu Val Ser Ser Leu Leu Gly Leu
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 Trp Leu Leu Leu Cys Ser Cys Gly Cys Pro Glu Gly Ala Glu Leu
 20 25 30

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Gly	Thr	Ser	Ala	Ala 50	Tyr	Tyr	Leu	Arg	Gln 55	Lys	Phe	Gly	Lys	Asp 60
Val	Lys	Ile	Asp	Leu 65	Phe	Glu	Arg	Glu	Glu 70	Val	Gly	Gly	Arg	Leu 75
Ala	Thr	Met	Met	Val 80	Gln	Gly	Gln	Glu	Tyr 85	Glu	Ala	Gly	Gly	Ser 90
Val	Ile	His	Pro	Leu 95	Asn	Leu	His	Met	Lys 100	Arg	Phe	Val	Lys	Asp 105
Leu	Gly	Leu	Ser	Ala 110	Val	Gln	Ala	Ser	Gly 115	Gly	Leu	Leu	Gly	Ile 120
Tyr	Asn	Gly	Glu	Thr 125	Leu	Val	Phe	Glu	Glu 130	Ser	Asn	Trp	Phe	Ile 135
Ile	Asn	Val	Ile	Lys 140	Leu	Val	Trp	Arg	Tyr 145	Gly	Phe	Gln	Ser	Leu 150
Arg	Met	His	Met	Trp 155	Val	Glu	Asp	Val	Leu 160	Asp	Lys	Phe	Met	Arg 165
Ile	Tyr	Arg	Tyr	Gln 170	Ser	His	Asp	Tyr	Ala 175	Phe	Ser	Ser	Val	Glu 180
Lys	Leu	Leu	His	Ala 185	Leu	Gly	Gly	Asp	Asp 190	Phe	Leu	Gly	Met	Leu 195
Asn	Arg	Thr	Leu	Leu 200	Glu	Thr	Leu	Gln	Lys 205	Ala	Gly	Phe	Ser	Glu 210
Lys	Phe	Leu	Asn	Glu 215	Met	Ile	Ala	Pro	Val 220	Met	Arg	Val	Asn	Tyr 225
Gly	Gln	Ser	Thr	Asp 230	Ile	Asn	Ala	Phe	Val 235	Gly	Ala	Val	Ser	Leu 240
Ser	Cys	Ser	Asp	Ser 245	Gly	Leu	Trp	Ala	Val 250	Glu	Gly	Gly	Asn	Lys 255
Leu	Val	Cys	Ser	Gly 260	Leu	Leu	Gln	Ala	Ser 265	Lys	Ser	Asn	Leu	Ile 270
Ser	Gly	Ser	Val	Met 275	Tyr	Ile	Glu	Glu	Lys 280	Thr	Lys	Thr	Lys	Tyr 285
Thr	Gly	Asn	Pro	Thr 290	Lys	Met	Tyr	Glu	Val 295	Val	Tyr	Gln	Ile	Gly 300
Thr	Glu	Thr	Arg	Ser 305	Asp	Phe	Tyr	Asp	Ile 310	Val	Leu	Val	Ala	Thr 315
Pro	Leu	Asn	Arg	Lys	Met	Ser	Asn	Ile	Thr	Phe	Leu	Asn	Phe	Asp

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335	340	345
Thr Leu Val Lys Gly Glu Leu Asn Thr Ser Ile Phe Ser Ser Arg		
350	355	360
Pro Ile Asp Lys Phe Gly Leu Asn Thr Val Leu Thr Thr Asp Asn		
365	370	375
Ser Asp Leu Phe Ile Asn Ser Ile Gly Ile Val Pro Ser Val Arg		
380	385	390
Glu Lys Glu Asp Pro Glu Pro Ser Thr Asp Gly Thr Tyr Val Trp		
395	400	405
Lys Ile Phe Ser Gln Glu Thr Leu Thr Lys Ala Gln Ile Leu Lys		
410	415	420
Leu Phe Leu Ser Tyr Asp Tyr Ala Val Lys Lys Pro Trp Leu Ala		
425	430	435
Tyr Pro His Tyr Lys Pro Pro Glu Lys Cys Pro Ser Ile Ile Leu		
440	445	450
His Asp Arg Leu Tyr Tyr Leu Asn Gly Ile Glu Cys Ala Ala Ser		
455	460	465
Ala Met Glu Met Ser Ala Ile Ala Ala His Asn Ala Ala Leu Leu		
470	475	480
Ala Tyr His Arg Trp Asn Gly His Thr Asp Met Ile Asp Gln Asp		
485	490	495
Gly Leu Tyr Glu Lys Leu Lys Thr Glu Leu		
500	505	

<210> 53
 <211> 728
 <212> DNA
 <213> Homo Sapien

<400> 53
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 tattaataata aatgtttttt aaatctga 728

<210> 54
 <211> 166
 <212> PRT
 <213> Homo Sapien

<400> 54
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 20 25 30
 Pro Gln Thr Leu Ser Arg Gly Trp Gly Asp Asp Ile Thr Trp Val
 35 40 45
 Gln Thr Tyr Glu Glu Gly Leu Phe Tyr Ala Gln Lys Ser Lys Lys
 50 55 60
 Pro Leu Met Val Ile His His Leu Glu Asp Cys Gln Tyr Ser Gln
 65 70 75
 Ala Leu Lys Lys Val Phe Ala Gln Asn Glu Glu Ile Gln Glu Met
 80 85 90
 Ala Gln Asn Lys Phe Ile Met Leu Asn Leu Met His Glu Thr Thr
 95 100 105
 Asp Lys Asn Leu Ser Pro Asp Gly Gln Tyr Val Pro Arg Ile Met
 110 115 120
 Phe Val Asp Pro Ser Leu Thr Val Arg Ala Asp Ile Ala Gly Arg
 125 130 135
 Tyr Ser Asn Arg Leu Tyr Thr Tyr Glu Pro Arg Asp Leu Pro Leu
 140 145 150
 Leu Ile Glu Asn Met Lys Lys Ala Leu Arg Leu Ile Gln Ser Glu
 155 160 165
 Leu

<210> 55
 <211> 537
 <212> DNA
 <213> Homo Sapien

<400> 55
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 agaccaggaa cgagaaaaaa gaagtatcag tgacagcgat gaattagctt 200
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 attccatttc caagatttcc atggtttaga cgtaattttc ctattccaat 300
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 ggataagtca cgataaacct ggtcacctga aattgaaatt gagccacttc 400
 cttgaagaat caaaattcct gttaataaaa gaaaaacaaa tgtaattgaa 450
 atagcacaca gcattctcta gtcaatatct ttagtgatct tctttaataa 500
 acatgaaagc aaagattttg gtttcttaat ttccaca 537

<210> 56
 <211> 85
 <212> PRT
 <213> Homo Sapien

<400> 56
 Met Lys Lys Val Leu Leu Leu Ile Thr Ala Ile Leu Ala Val Ala
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 20 25 30
 Ile Ser Asp Ser Asp Glu Leu Ala Ser Gly Phe Phe Val Phe Pro
 35 40 45
 Tyr Pro Tyr Pro Phe Arg Pro Leu Pro Pro Ile Pro Phe Pro Arg
 50 55 60
 Phe Pro Trp Phe Arg Arg Asn Phe Pro Ile Pro Ile Pro Glu Ser
 65 70 75
 Ala Pro Thr Thr Pro Leu Pro Ser Glu Lys
 80 85

<210> 57
 <211> 2997
 <212> DNA
 <213> Homo Sapien

<400> 57

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gtggcccaaa aaaaa 2015

<210> 63
<211> 482
<212> PRT
<213> Homo Sapien

<400> 63
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35					40					45				
Met	Thr	Leu	Ala	Pro	Gly	His	Ala	Ala	Leu	Glu	Thr	Gln	Thr	Leu
50					55					60				
Ser	Ala	Glu	Thr	Ser	Ser	Arg	Ala	Ser	Thr	Pro	Ala	Gly	Pro	Ile
65					70					75				
Pro	Glu	Ala	Glu	Thr	Arg	Gly	Ala	Lys	Arg	Ile	Ser	Pro	Ala	Arg
80					85					90				
Glu	Thr	Arg	Ser	Phe	Thr	Lys	Thr	Ser	Pro	Asn	Phe	Met	Val	Leu
95					100					105				
Ile	Ala	Thr	Ser	Val	Glu	Thr	Ser	Ala	Ala	Ser	Gly	Ser	Pro	Glu
110					115					120				
Gly	Ala	Gly	Met	Thr	Thr	Val	Gln	Thr	Ile	Thr	Gly	Ser	Asp	Pro
125					130					135				
Glu	Glu	Ala	Ile	Phe	Asp	Thr	Leu	Cys	Thr	Asp	Asp	Ser	Ser	Glu
140					145					150				
Glu	Ala	Lys	Thr	Leu	Thr	Met	Asp	Ile	Leu	Thr	Leu	Ala	His	Thr
155					160					165				
Ser	Thr	Glu	Ala	Lys	Gly	Leu	Ser	Ser	Glu	Ser	Ser	Ala	Ser	Ser
170					175					180				
Asp	Gly	Pro	His	Pro	Val	Ile	Thr	Pro	Ser	Arg	Ala	Ser	Glu	Ser
185					190					195				
Ser	Ala	Ser	Ser	Asp	Gly	Pro	His	Pro	Val	Ile	Thr	Pro	Ser	Arg
200					205					210				
Ala	Ser	Glu	Ser	Ser	Ala	Ser	Ser	Asp	Gly	Pro	His	Pro	Val	Ile
215					220					225				
Thr	Pro	Ser	Trp	Ser	Pro	Gly	Ser	Asp	Val	Thr	Leu	Leu	Ala	Glu
230					235					240				
Ala	Leu	Val	Thr	Val	Thr	Asn	Ile	Glu	Val	Ile	Asn	Cys	Ser	Ile
245					250					255				
Thr	Glu	Ile	Glu	Thr	Thr	Thr	Ser	Ser	Ile	Pro	Gly	Ala	Ser	Asp
260					265					270				
Ile	Asp	Leu	Ile	Pro	Thr	Glu	Gly	Val	Lys	Ala	Ser	Ser	Thr	Ser
275					280					285				
Asp	Pro	Pro	Ala	Leu	Pro	Asp	Ser	Thr	Glu	Ala	Lys	Pro	His	Ile
290					295					300				
Thr	Glu	Val	Thr	Ala	Ser	Ala	Glu	Thr	Leu	Ser	Thr	Ala	Gly	Thr
305					310					315				

Thr	Glu	Ser	Ala	Ala	Pro	His	Ala	Thr	Val	Gly	Thr	Pro	Leu	Pro
				320					325					330
Thr	Asn	Ser	Ala	Thr	Glu	Arg	Glu	Val	Thr	Ala	Pro	Gly	Ala	Thr
				335					340					345
Thr	Leu	Ser	Gly	Ala	Leu	Val	Thr	Val	Ser	Arg	Asn	Pro	Leu	Glu
				350					355					360
Glu	Thr	Ser	Ala	Leu	Ser	Val	Glu	Thr	Pro	Ser	Tyr	Val	Lys	Val
				365					370					375
Ser	Gly	Ala	Ala	Pro	Val	Ser	Ile	Glu	Ala	Gly	Ser	Ala	Val	Gly
				380					385					390
Lys	Thr	Thr	Ser	Phe	Ala	Gly	Ser	Ser	Ala	Ser	Ser	Tyr	Ser	Pro
				395					400					405
Ser	Glu	Ala	Ala	Leu	Lys	Asn	Phe	Thr	Pro	Ser	Glu	Thr	Pro	Thr
				410					415					420
Met	Asp	Ile	Ala	Thr	Lys	Gly	Pro	Phe	Pro	Thr	Ser	Arg	Asp	Pro
				425					430					435
Leu	Pro	Ser	Val	Pro	Pro	Thr	Thr	Thr	Asn	Ser	Ser	Arg	Gly	Thr
				440					445					450
Asn	Ser	Thr	Leu	Ala	Lys	Ile	Thr	Thr	Ser	Ala	Lys	Thr	Thr	Met
				455					460					465
Lys	Pro	Gln	Gln	Pro	Arg	Pro	Arg	Leu	Pro	Gly	Arg	Gly	Arg	Pro
				470					475					480

Gln Thr

<210> 64
 <211> 1252
 <212> DNA
 <213> Homo Sapien

<400> 64
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 gccactccag aggccatgct tcgtttcttg ccagatttgg ctttcagctt 100
 cctgttaatt ctggcttttg gccaggcagt ccaatttcaa gaatatgtct 150
 ttctccaatt tctgggctta gataaggcgc cttcacccca gaagttccaa 200
 cctgtgcctt atatcttgaa gaaaattttc caggatcgcg aggcagcagc 250
 gaccactggg gtctcccgag acttatgcta cgtaaaggag ctgggcgtcc 300
 gcgggaatgt acttcgcttt ctcccagacc aaggtttctt tctttaccca 350
 aagaaaattt cccaagcttc ctctgcctg cagaagctcc tctactttaa 400

cctgtctgcc atcaaagaaa ggggaacagtt gacattggcc cagctgggccc 450
 tggacttggg gcccaattct tactataacc tgggaccaga gctggaactg 500
 gctctgttcc tgggttcagga gcctcatgtg tggggccaga ccaccctaa 550
 gccaggtaaa atgtttgtgt tgcggtcagt cccatggcca caaggtgctg 600
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 aaaaatttcg gggtattcct ggagatactg gtcaaagaag atagagactc 700
 aggggtgaat tttcagcctg aagacacctg tgccagacta agatgctccc 750
 ttcatgcttc cctgctgggtg gtgactctca accctgatca gtgccaccct 800
 tctcggaaaa ggagagcagc catccctgtc cccaagcttt cttgtaagaa 850
 cctctgccac cgtcaccagc tattcattaa ctccggggac ctgggttggc 900
 acaagtggat cattgcccc aaggggttca tggcaaatta ctgccatgga 950
 gagtgtccct tctactgac catctctctc aacagctcca attatgcttt 1000
 catgcaagcc ctgatgcatg ccgttgacct agagatcccc caggctgtgt 1050
 gtatccccac caagctgtct cccatttcca tgctctacca ggacaataat 1100
 gacaatgtca ttctacgaca ttatgaagac atggtagtcg atgaatgtgg 1150
 gtgtgggtag gatgtcagaa atgggaatag aaggagtgtt cttagggtaa 1200
 atcttttaaat aaaactacct atctgggtta tgaccactta gatcgaaatg 1250
 tc 1252

<210> 65
 <211> 364
 <212> PRT
 <213> Homo Sapien

<400> 65
 Met Leu Arg Phe Leu Pro Asp Leu Ala Phe Ser Phe Leu Leu Ile
 1 5 10 15
 Leu Ala Leu Gly Gln Ala Val Gln Phe Gln Glu Tyr Val Phe Leu
 20 25 30
 Gln Phe Leu Gly Leu Asp Lys Ala Pro Ser Pro Gln Lys Phe Gln
 35 40 45
 Pro Val Pro Tyr Ile Leu Lys Lys Ile Phe Gln Asp Arg Glu Ala
 50 55 60
 Ala Ala Thr Thr Gly Val Ser Arg Asp Leu Cys Tyr Val Lys Glu
 65 70 75
 Leu Gly Val Arg Gly Asn Val Leu Arg Phe Leu Pro Asp Gln Gly

[illegible]

<210> 66
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide probe

 <400> 66
 gtctgacagc cactccagag 20

 <210> 67
 <211> 47
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide probe

 <400> 67
 tctccaattt ctgggcttag ataaggcgcc ttcaccccag aagttcc 47

 <210> 68
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide probe

 <400> 68
 gtcccagggt atagtaagaa ttgg 24

 <210> 69
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide probe

 <400> 69
 gtgttgcggt cagtcccatg 20

 <210> 70
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide probe

 <400> 70
 gctgtctccc atttccatgc 20

 <210> 71
 <211> 24
 <212> DNA

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 tgaccccacc gcctcttccc cgatccctgg actccgactc cctggcctttg 1250
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200	205	210
Ile Met Lys Asn Glu Glu Glu Val Val	Ile Leu Phe Ala Gln Val	
215	220	225
Gly Asp Arg Ser Ile Met Gln Ser Gln	Ser Leu Met Leu Glu Leu	
230	235	240
Arg Glu Gln Asp Gln Val Trp Val Arg	Leu Tyr Lys Gly Glu Arg	
245	250	255
Glu Asn Ala Ile Phe Ser Glu Glu Leu	Asp Thr Tyr Ile Thr Phe	
260	265	270
Ser Gly Tyr Leu Val Lys His Ala Thr	Glu Pro	
275	280	

<210> 74
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 74
 tacaggccca gtcaggacca gggg 24

<210> 75
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 75
 ctgaagaagt agaggccggg cacg 24

<210> 76
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 76
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<210> 77
 <211> 1042
 <212> DNA
 <213> Homo Sapien

<400> 77
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gcatataaag aagccctgtg gccttgcctg ttttaccatc cagaccagag 100
tcaggccaca gacggacatg gctgctcaag gctgggtccat gctcctgctg 150
gctgtcctta acctagggat cttcgtccgt ccctgtgaca ctcaagagct 200
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aaatgtttta tttacttaac ttcctagtga atgttcacag gtgactgctc 800
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attgactgac aaactactca gattgcttaa cattttgtgc ttcaaagtct 900
tatccactc cactatgggc tgttacagag tgcactcggg tgtagagcaa 950
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cattcatcag aaaatctgaa ataaaaatat gtcttaattg ag 1042

<210> 78
<211> 167
<212> PRT
<213> Homo Sapien

<400> 78
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Leu Gly Ile Phe Val Arg Pro Cys Asp Thr Gln Glu Leu Arg Cys
20 25 30
Leu Cys Ile Gln Glu His Ser Glu Phe Ile Pro Leu Lys Leu Ile
35 40 45
Lys Asn Ile Met Val Ile Phe Glu Thr Ile Tyr Cys Asn Arg Lys
50 55 60

gcccacagca ggccaggtcc agagagaccg aggagggaga gtctcccagg 650
gagcatgaga ggaggcagca ggactgtccc cttgaaggag aatcatcagg 700
accctggacc tgatacggct cccagtagca cccacacctt tccttgtaaa 750
tatgatattat acctaactga ataaaaagct gttctgtctt ccnccca 798

<210> 80
<211> 134
<212> PRT
<213> Homo Sapien

<400> 80
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Phe Gly Ile Pro Arg Thr Gln Gly Ser Asp Gly Gly Ala Gln Asp
20 25 30
Cys Cys Leu Lys Tyr Ser Gln Arg Lys Ile Pro Ala Lys Val Val
35 40 45
Arg Ser Tyr Arg Lys Gln Glu Pro Ser Leu Gly Cys Ser Ile Pro
50 55 60
Ala Ile Leu Phe Leu Pro Arg Lys Arg Ser Gln Ala Glu Leu Cys
65 70 75
Ala Asp Pro Lys Glu Leu Trp Val Gln Gln Leu Met Gln His Leu
80 85 90
Asp Lys Thr Pro Ser Pro Gln Lys Pro Ala Gln Gly Cys Arg Lys
95 100 105
Asp Arg Gly Ala Ser Lys Thr Gly Lys Lys Gly Lys Gly Ser Lys
110 115 120
Gly Cys Lys Arg Thr Glu Arg Ser Gln Thr Pro Lys Gly Pro
125 130

<210> 81
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 81
agacatggct cagtcactgg 20

<210> 82
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 82

gaccctctaaa gggccatag 19

<210> 83

<211> 924

<212> DNA

<213> Homo Sapien

<400> 83

aaggagcagc ccgcaagcac caagtgagag gcatgaagtt acagtgtgtt 50
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 cgggtctcagg agatgtctga tttccacaga catgcaccat atagaagaga 150
 gtttccaaga aatcaaaaga gccatccaag ctaaggacac cttcccaaatt 200
 gtcactatcc tgtccacatt ggagactctg cagatcatta agcccttaga 250
 tgtgtgtctgc gtgaccaaga acctcctggc gttctacgtg gacaggggtgt 300
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 attgccaact ctttctctta catgcagaaa actctgcggc aatgtcagga 400
 acagagggcag tgtcactgca ggcaggaagc caccaatgcc accagagtca 450
 tccatgacaa ctatgatcag ctggaggtcc acgctgctgc cattaaatcc 500
 ctgggagagc tcgacgtctt tctagcctgg attaataaga atcatgaagt 550
 aatgtttctca gcttgatgac aaggaacctg tatagtgatc cagggatgaa 600
 caccacctgt gcggtttact gtgggagaca gccaccttg aaggggaagg 650
 agatggggaa ggcacctgac agctgaaagt cccactggct ggcctcaggc 700
 tgtcttattc cgcttgaaaa taggcaaaaa gtctactgtg gtatttgtaa 750
 taaactctat ctgctgaaag ggctgcagg ccacacctgg agtaaagggc 800
 tgccttccca tctaatttat tgtaaagtca tatagtccat gtctgtgatg 850
 tgagccaagt gatatcctgt agtacacatt gtactgagtg gtttttctga 900
 ataaattcca tattttacct atga 924

<210> 84

<211> 177

<212> PRT

<213> Homo Sapien

<400> 84

Met Lys Leu Gln Cys Val Ser Leu Trp Leu Leu Gly Thr Ile Leu
 1 5 10 15

tggccggcct ctggetggcc gtggccgggc gccccctcgc cttctcggac 550
 gcggggcccc acgtgcaacta cggctggggc gaccccatcc gcctgcggca 600
 cctgtacacc tccggccccc acgggctctc cagctgcttc ctgcgcaccc 650
 gtgcccagcg cgctcgtggac tgcgcgcggg gccagagcgc gcacagtttg 700
 ctggagatca aggcagtcgc tctgcggacc gtggccatca agggcgctgca 750
 cagcgtgcgg tacctctgca tgggcgccga cggcaagatg caggggctgc 800
 ttcagtactc ggaggaagac tgtgctttcg aggaggagat ccgcccagat 850
 ggctacaatg tgtaccgatc cgagaagcac cgcctcccgg tctccctgag 900
 cagtgccaaa cagcggcagc tgtacaagaa cagaggcttt cttccactct 950
 ctcatttcct gcccatgctg cccatggtcc cagaggagcc tgaggacctc 1000
 agggggccact tggaaatctga catgtttctc tcgcccctgg agaccgacag 1050
 catggaccca tttgggcttg tcaccggact ggaggccgtg aggagtccca 1100
 gctttgagaa gtaactgaga ccatgcccg gctcttcac tgctgccagg 1150
 ggctgtggta cctgcagcgt gggggacgtg cttctacaag aacagtccctg 1200
 agtccacgtt ctgttttagc ttaggaagaa acatctagaa gttgtacata 1250
 ttcagagttt tccattggca gtgccagttt ctageccaata gacttgtctg 1300
 atcataacat tgtaagcctg tagcttgccc agctgctgcc tggggcccca 1350
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 cttgaatacc tccatcgatg gggaaactcac ttcctttgga aaaattctta 1450
 tgtcaagctg aaattctcta attttttctc atcacttccc caggagcagc 1500
 cagaagacag gcagtagttt taatttcagg aacaggatgat ccaactctgta 1550
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 ctacttccag ggaccatttg cccttcccaa atccctccag gccagaactg 1650
 actggagcag gcatggccca ccaggcttca ggagtagggg aagcctggag 1700
 cccactcca gccctgggac aacttgagaa tccccctga ggccagttct 1750
 gtcattgatg ctgtcctgag aataacttgc tgtcccggtg tcacctgctt 1800
 ccatctccca gccaccagc cctctgccca cctcacatgc ctcccatgg 1850
 attggggcct ccaggcccc ccacottatg tcaacctgca cttcttgctt 1900
 aaaaatcagg aaaagaaaag atttgaagac cccaagtctt gtcaataact 1950

tgctgtgtgg aagcagcggg ggaagaccta gaaccctttc cccagcactt 2000
 ggttttccaa catgatattt atgagtaatt tattttgata tgtacatctc 2050
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 gaggtttggtt ttgtatatta aaatggagtt tgtttgt 2137

<210> 86
 <211> 216
 <212> PRT
 <213> Homo Sapien

<400> 86
 Met Arg Ser Gly Cys Val Val Val His Val Trp Ile Leu Ala Gly
 1 5 10 15
 Leu Trp Leu Ala Val Ala Gly Arg Pro Leu Ala Phe Ser Asp Ala
 20 25 30
 Gly Pro His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg
 35 40 45
 His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu
 50 55 60
 Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser
 65 70 75
 Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
 80 85 90
 Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
 95 100 105
 Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
 110 115 120
 Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg
 125 130 135
 Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
 140 145 150
 Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe
 155 160 165
 Leu Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg
 170 175 180
 Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp
 185 190 195
 Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg
 200 205 210
 Ser Pro Ser Phe Glu Lys
 215

<210> 87
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 87
 atccgcccag atggctacaa tgtgta 26

<210> 88
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 88
 gcctcccggt ctccctgagc agtgccaaac agcggcagtg ta 42

<210> 89
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 89
 ccagtcgggt gacaagccca aa 22

<210> 90
 <211> 1857
 <212> DNA
 <213> Homo Sapien

<400> 90
 gtctgttccc aggagtcctt cggcggctgt tgtgtcagtg gcctgatcgc 50
 gatggggaca aaggcgcaag tcgagaggaa actgttgtgc ctcttcatat 100
 tggcgatcct gtttgtgctcc ctggcattgg gcagtgttac agtgcactct 150
 tctgaacctg aagtcagaat tcctgagaat aatcctgtga agttgtcctg 200
 tgccactcgc ggcttttctt ctccccgtgt ggagtgggaag ttgaccaag 250
 gagacaccac cagactcggt tgctataata acaagatcac agcttcctat 300
 gaggaccggg tgaccttctt gccaaactgg atcaccttca agtccgtgac 350
 acgggaagac actgggacat acacttgtat ggtctctgag gaaggcggca 400
 acagctatgg ggaggtcaag gtcaagctca tcgtgcttgt gcctccatcc 450
 aagcctacag ttaacatccc ctctctgcc accattggga accgggcagt 500

gctgacatgc tcagaacaag atgggtccccc accttctgaa tacacctggt 550
tcaaagatgg gatagtgatg cctacgaatc ccaaaagcac ccgtgccttc 600
agcaactcct cctatgtcct gaatcccaca acaggagagc tggctcttga 650
tccccgtgca gcctctgata ctggagaata cagctgtgag gcacggaatg 700
gggtatgggac acccatgact tcaaagtctg tgcgcatgga agctgtggag 750
cggaatgtgg ggggtcatcgt ggcagccgtc cttgtaaccc tgattctcct 800
gggaatcttg gtttttggca tctgggttgc ctatagccga ggccactttg 850
acagaacaaa gaaagggact tcgagtaaga aggtgattta cagccagcct 900
agtccccgaa gtgaaggaga attcaaacag acctcgatcat tcctgggtgtg 950
agcctggctg gctcaccgcc tatcatctgc atttgcctta ctcagggtgct 1000
accggactct gggccctgat gtctgtagtt tcacaggatg ccttatttgt 1050
cttctacacc ccacagggcc ccctacttct tcggatgtgt ttttaataat 1100
gtcagctatg tgecccatcc tccttcatgc cctccctccc tttcctacca 1150
ctgctgagtg gcctggaact tgtttaaagt gtttattccc catttctttg 1200
agggatcagg aaggaatcct gggatgcca ttgacttccc ttctaagtag 1250
acagcaaaaa tggcgggggt cgcaggaatc tgcactcaac tgcccacctg 1300
gctggcaggg atctttgaat aggtatcttg agcttgggtc tgggctcttt 1350
ccttgtgtac tgacgaccag ggccagctgt tctagagcgg gaattagagg 1400
ctagagcggc tgaaatgggt gtttgggtgat gacactgggg tccttccatc 1450
tctggggccc actctcttct gtcttcccat ggggaagtgcc actgggatcc 1500
ctctgccctg tcctcctgaa tacaagctga ctgacattga ctgtgtctgt 1550
ggaaaatggg agctcttggt gtggagagca tagtaaattt tcagagaact 1600
tgaagccaaa aggatttaaa accgctgctc taaagaaaag aaaactggag 1650
gctgggcgca gtggctcagc cctgtaatcc cagaggctga ggcaggcgga 1700
tcacctgagg tcgggaggtc gggatcagcc tgaccaacat ggagaaaccc 1750
tactggaaat acaaagttag ccaggcatgg tgggtcatgc ctgtagtccc 1800
agctgctcag gagcctggca acaagagcaa aactccagct caaaaaaaaaa 1850
aaaaaaa 1857

<210> 91
<211> 299

<212> PRT

<213> Homo Sapien

<400> 91

Met	Gly	Thr	Lys	Ala	Gln	Val	Glu	Arg	Lys	Leu	Leu	Cys	Leu	Phe	1	5	10	15
Ile	Leu	Ala	Ile	Leu	Leu	Cys	Ser	Leu	Ala	Leu	Gly	Ser	Val	Thr	20	25	30	
Val	His	Ser	Ser	Glu	Pro	Glu	Val	Arg	Ile	Pro	Glu	Asn	Asn	Pro	35	40	45	
Val	Lys	Leu	Ser	Cys	Ala	Tyr	Ser	Gly	Phe	Ser	Ser	Pro	Arg	Val	50	55	60	
Glu	Trp	Lys	Phe	Asp	Gln	Gly	Asp	Thr	Thr	Arg	Leu	Val	Cys	Tyr	65	70	75	
Asn	Asn	Lys	Ile	Thr	Ala	Ser	Tyr	Glu	Asp	Arg	Val	Thr	Phe	Leu	80	85	90	
Pro	Thr	Gly	Ile	Thr	Phe	Lys	Ser	Val	Thr	Arg	Glu	Asp	Thr	Gly	95	100	105	
Thr	Tyr	Thr	Cys	Met	Val	Ser	Glu	Glu	Gly	Gly	Asn	Ser	Tyr	Gly	110	115	120	
Glu	Val	Lys	Val	Lys	Leu	Ile	Val	Leu	Val	Pro	Pro	Ser	Lys	Pro	125	130	135	
Thr	Val	Asn	Ile	Pro	Ser	Ser	Ala	Thr	Ile	Gly	Asn	Arg	Ala	Val	140	145	150	
Leu	Thr	Cys	Ser	Glu	Gln	Asp	Gly	Ser	Pro	Pro	Ser	Glu	Tyr	Thr	155	160	165	
Trp	Phe	Lys	Asp	Gly	Ile	Val	Met	Pro	Thr	Asn	Pro	Lys	Ser	Thr	170	175	180	
Arg	Ala	Phe	Ser	Asn	Ser	Ser	Tyr	Val	Leu	Asn	Pro	Thr	Thr	Gly	185	190	195	
Glu	Leu	Val	Phe	Asp	Pro	Leu	Ser	Ala	Ser	Asp	Thr	Gly	Glu	Tyr	200	205	210	
Ser	Cys	Glu	Ala	Arg	Asn	Gly	Tyr	Gly	Thr	Pro	Met	Thr	Ser	Asn	215	220	225	
Ala	Val	Arg	Met	Glu	Ala	Val	Glu	Arg	Asn	Val	Gly	Val	Ile	Val	230	235	240	
Ala	Ala	Val	Leu	Val	Thr	Leu	Ile	Leu	Leu	Gly	Ile	Leu	Val	Phe	245	250	255	
Gly	Ile	Trp	Phe	Ala	Tyr	Ser	Arg	Gly	His	Phe	Asp	Arg	Thr	Lys	260	265	270	

will be used to determine the sequence of the DNA. The DNA sequence will be determined by the method of Sanger et al. (1977). The DNA sequence will be determined by the method of Sanger et al. (1977).

Lys Gly Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala
275 280 285

Arg Ser Glu Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val
290 295

<210> 92
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 92
tcgcggagct gtgttctgtt tccc 24

<210> 93
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 93
tgatcgcgat ggggacaaag gcgcaagctc gagaggaaac tggtgtgcct 50

<210> 94
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 94
acacctgggtt caaagatggg 20

<210> 95
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 95
taggaagagt tgctgaaggc acgg 24

<210> 96
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

tggatctcc ctcagtctgc cccagcccc caaactcttc ctggctagac 1050

tgttaggaagg gacttttggt tggttggttg tttcaggaaa aaagaaaggg 1100

agagagagga aaatagaggg ttgtccactc ctcacattcc acgacccagg 1150

cctgcacccc acccccact cccagccccg gaataaaacc attttcctgc 1200

<210> 99

<211> 205

<212> PRT

<213> Homo Sapien

<400> 99

Met Gly Ala Ala Arg Leu Leu Pro Asn Leu Thr Leu Cys Leu Gln
1 5 10 15

Leu Leu Ile Leu Cys Cys Gln Thr Gln Tyr Val Arg Asp Gln Gly
20 25 30

Ala Met Thr Asp Gln Leu Ser Arg Arg Gln Ile Arg Glu Tyr Gln
35 40 45

Leu Tyr Ser Arg Thr Ser Gly Lys His Val Gln Val Thr Gly Arg
50 55 60

Arg Ile Ser Ala Thr Ala Glu Asp Gly Asn Lys Phe Ala Lys Leu
65 70 75

Ile Val Glu Thr Asp Thr Phe Gly Ser Arg Val Arg Ile Lys Gly
80 85 90

Ala Glu Ser Glu Lys Tyr Ile Cys Met Asn Lys Arg Gly Lys Leu
95 100 105

Ile Gly Lys Pro Ser Gly Lys Ser Lys Asp Cys Val Phe Thr Glu
110 115 120

Ile Val Leu Glu Asn Asn Tyr Thr Ala Phe Gln Asn Ala Arg His
125 130 135

Glu Gly Trp Phe Met Ala Phe Thr Arg Gln Gly Arg Pro Arg Gln
140 145 150

Ala Ser Arg Ser Arg Gln Asn Gln Arg Glu Ala His Phe Ile Lys
155 160 165

Arg Leu Tyr Gln Gly Gln Leu Pro Phe Pro Asn His Ala Glu Lys
170 175 180

Gln Lys Gln Phe Glu Phe Val Gly Ser Ala Pro Thr Arg Arg Thr
185 190 195

Lys Arg Thr Arg Arg Pro Gln Pro Leu Thr
200 205

[illegible]

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<210> 104
<211> 344
<212> PRT
<213> Homo Sapien
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<400> 104

Met	Lys	Thr	Ile	Gln	Pro	Lys	Met	His	Asn	Ser	Ile	Ser	Trp	Ala	1	5	10	15
Ile	Phe	Thr	Gly	Leu	Ala	Ala	Leu	Cys	Leu	Phe	Gln	Gly	Val	Pro	20	25	30	
Val	Arg	Ser	Gly	Asp	Ala	Thr	Phe	Pro	Lys	Ala	Met	Asp	Asn	Val	35	40	45	
Thr	Val	Arg	Gln	Gly	Glu	Ser	Ala	Thr	Leu	Arg	Cys	Thr	Ile	Asp	50	55	60	
Asn	Arg	Val	Thr	Arg	Val	Ala	Trp	Leu	Asn	Arg	Ser	Thr	Ile	Leu	65	70	75	
Tyr	Ala	Gly	Asn	Asp	Lys	Trp	Cys	Leu	Asp	Pro	Arg	Val	Val	Leu	80	85	90	
Leu	Ser	Asn	Thr	Gln	Thr	Gln	Tyr	Ser	Ile	Glu	Ile	Gln	Asn	Val	95	100	105	
Asp	Val	Tyr	Asp	Glu	Gly	Pro	Tyr	Thr	Cys	Ser	Val	Gln	Thr	Asp	110	115	120	
Asn	His	Pro	Lys	Thr	Ser	Arg	Val	His	Leu	Ile	Val	Gln	Val	Ser	125	130	135	
Pro	Lys	Ile	Val	Glu	Ile	Ser	Ser	Asp	Ile	Ser	Ile	Asn	Glu	Gly	140	145	150	
Asn	Asn	Ile	Ser	Leu	Thr	Cys	Ile	Ala	Thr	Gly	Arg	Pro	Glu	Pro	155	160	165	
Thr	Val	Thr	Trp	Arg	His	Ile	Ser	Pro	Lys	Ala	Val	Gly	Phe	Val	170	175	180	
Ser	Glu	Asp	Glu	Tyr	Leu	Glu	Ile	Gln	Gly	Ile	Thr	Arg	Glu	Gln	185	190	195	
Ser	Gly	Asp	Tyr	Glu	Cys	Ser	Ala	Ser	Asn	Asp	Val	Ala	Ala	Pro	200	205	210	
Val	Val	Arg	Arg	Val	Lys	Val	Thr	Val	Asn	Tyr	Pro	Pro	Tyr	Ile	215	220	225	
Ser	Glu	Ala	Lys	Gly	Thr	Gly	Val	Pro	Val	Gly	Gln	Lys	Gly	Thr	230	235	240	
Leu	Gln	Cys	Glu	Ala	Ser	Ala	Val	Pro	Ser	Ala	Glu	Phe	Gln	Trp	245	250	255	
Tyr	Lys	Asp	Asp	Lys	Arg	Leu	Ile	Glu	Gly	Lys	Lys	Gly	Val	Lys	260	265	270	
Val	Glu	Asn	Arg	Pro	Phe	Leu	Ser	Lys	Leu	Ile	Phe	Phe	Asn	Val	275	280	285	

Ser	Glu	His	Asp	Tyr	Gly	Asn	Tyr	Thr	Cys	Val	Ala	Ser	Asn	Lys
				290					295					300
Leu	Gly	His	Thr	Asn	Ala	Ser	Ile	Met	Leu	Phe	Gly	Pro	Gly	Ala
				305					310					315
Val	Ser	Glu	Val	Ser	Asn	Gly	Thr	Ser	Arg	Arg	Ala	Gly	Cys	Val
				320					325					330
Trp	Leu	Leu	Pro	Leu	Leu	Val	Leu	His	Leu	Leu	Leu	Lys	Phe	
				335					340					

<210> 105
 <211> 1734
 <212> DNA
 <213> Homo Sapien

<400> 105
 gtggactctg agaagcccag gcagttgagg acaggagaga gaaggctgca 50
 gaccagagg gagggaggac agggagtcgg aaggaggagg acagaggagg 100
 gcacagagac gcagagcaag ggcggcaagg aggagaccct ggtgggagga 150
 agacactctg gagagagagg gggctgggca gagatgaagt tccagggggcc 200
 cctggcctgc ctctctgctg ccctctgcct gggcagtgagg gaggctggcc 250
 ccctgcagag cggagaggaa agcactggga caaatattgg ggaggccctt 300
 ggacatggcc tgggagacgc cctgagcgaa ggggtgggaa aggccattgg 350
 caaagaggcc ggagggggcag ctggctctaa agtcagttag gcccttggcc 400
 aagggaccag agaagcagtt ggcactggag tcaggcaggt tccaggcttt 450
 ggcgcagcag atgcttttgg caacagggtc ggggaagcag cccatgctct 500
 gggaaacact gggcacgaga ttggcagaca ggcagaagat gtcattcgac 550
 acggagcaga tgctgtccgc ggctcctggc aggggggtgcc tggccacagt 600
 ggtgcttggg aaacttctgg aggccatggc atctttggct ctcaagggtg 650
 ccttggaggc cagggccagg gcaatcctgg aggtctgggg actccgtggg 700
 tccacggata ccccggaac tcagcaggca gctttggaat gaatcctcag 750
 ggagctccct ggggtcaagg aggcaatgga gggccaccaa actttgggac 800
 caacactcag ggagctgtgg ccagcctgg ctatggttca gtgagagcca 850
 gcaaccagaa tgaagggtgc acgaatcccc caccatctgg ctgaggtgga 900
 ggctccagca actctggggg aggcagcggc tcacagtcgg gcagcagtg 950
 cagtggcagc aatggtgaca acaacaatgg cagcagcagt ggtggcagca 1000

gcagtggcag cagcagtggc agcagcagtg gcggcagcag tggcggcagc 1050
 agtgggtggca gcagtggcaa cagtgggtggc agcagaggtg acagcggcag 1100
 tgagtccctcc tggggatcca gcaccggctc ctctccgggc aaccacgggtg 1150
 ggagcggcgg aggaaatgga cataaaccgc ggtgtgaaaa gccaggggaat 1200
 gaagcccgcg ggagcgggga atctgggatt cagggcttca gaggacaggg 1250
 agtttccagc aacatgaggg aaataagcaa agagggcaat cgcctccttg 1300
 gaggctctgg agacaattat cgggggcaag ggtcgagctg gggcagtgga 1350
 ggaggtgacg ctgttggtgg agtcaatact gtgaactctg agacgtctcc 1400
 tgggatgttt aactttgaca ctttctggaa gaatttttaa tccaagctgg 1450
 gtttcatcaa ctgggatgcc ataaacaagg accagagaag ctctcgcac 1500
 ccgtgacctc cagacaagga gccaccagat tggatgggag ccccccact 1550
 cctccttaa aacaccaccc tctcatcact aatctcagcc cttgcccttg 1600
 aaataaacct tagctgcccc acaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1650
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1700
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1734

<210> 106

<211> 440

<212> PRT

<213> Homo Sapien

<400> 106

Met	Lys	Phe	Gln	Gly	Pro	Leu	Ala	Cys	Leu	Leu	Leu	Ala	Leu	Cys
1				5					10					15
Leu	Gly	Ser	Gly	Glu	Ala	Gly	Pro	Leu	Gln	Ser	Gly	Glu	Glu	Ser
			20						25					30
Thr	Gly	Thr	Asn	Ile	Gly	Glu	Ala	Leu	Gly	His	Gly	Leu	Gly	Asp
			35						40					45
Ala	Leu	Ser	Glu	Gly	Val	Gly	Lys	Ala	Ile	Gly	Lys	Glu	Ala	Gly
			50						55					60
Gly	Ala	Ala	Gly	Ser	Lys	Val	Ser	Glu	Ala	Leu	Gly	Gln	Gly	Thr
			65						70					75
Arg	Glu	Ala	Val	Gly	Thr	Gly	Val	Arg	Gln	Val	Pro	Gly	Phe	Gly
			80						85					90
Ala	Ala	Asp	Ala	Leu	Gly	Asn	Arg	Val	Gly	Glu	Ala	Ala	His	Ala
			95						100					105
Leu	Gly	Asn	Thr	Gly	His	Glu	Ile	Gly	Arg	Gln	Ala	Glu	Asp	Val

	110		115		120
Ile Arg His Gly	Ala Asp Ala Val Arg	Gly Ser Trp Gln Gly	Val		
	125		130		135
Pro Gly His Ser	Gly Ala Trp Glu Thr	Ser Gly Gly His Gly	Ile		
	140		145		150
Phe Gly Ser Gln	Gly Gly Leu Gly Gly	Gln Gly Gln Gly Asn	Pro		
	155		160		165
Gly Gly Leu Gly	Thr Pro Trp Val His	Gly Tyr Pro Gly Asn	Ser		
	170		175		180
Ala Gly Ser Phe	Gly Met Asn Pro Gln	Gly Ala Pro Trp Gly	Gln		
	185		190		195
Gly Gly Asn Gly	Gly Pro Pro Asn Phe	Gly Thr Asn Thr Gln	Gly		
	200		205		210
Ala Val Ala Gln	Pro Gly Tyr Gly Ser	Val Arg Ala Ser Asn	Gln		
	215		220		225
Asn Glu Gly Cys	Thr Asn Pro Pro Pro	Ser Gly Ser Gly Gly	Gly		
	230		235		240
Ser Ser Asn Ser	Gly Gly Gly Ser Gly	Ser Gln Ser Gly Ser	Ser		
	245		250		255
Gly Ser Gly Ser	Asn Gly Asp Asn Asn	Asn Gly Ser Ser Ser	Gly		
	260		265		270
Gly Ser Ser Ser	Gly Ser Ser Ser Gly	Ser Ser Ser Gly Gly	Ser		
	275		280		285
Ser Gly Gly Ser	Ser Gly Gly Ser Ser	Gly Asn Ser Gly Gly	Ser		
	290		295		300
Arg Gly Asp Ser	Gly Ser Glu Ser Ser	Trp Gly Ser Ser Thr	Gly		
	305		310		315
Ser Ser Ser Gly	Asn His Gly Gly Ser	Gly Gly Gly Asn Gly	His		
	320		325		330
Lys Pro Gly Cys	Glu Lys Pro Gly Asn	Glu Ala Arg Gly Ser	Gly		
	335		340		345
Glu Ser Gly Ile	Gln Gly Phe Arg Gly	Gln Gly Val Ser Ser	Asn		
	350		355		360
Met Arg Glu Ile	Ser Lys Glu Gly Asn	Arg Leu Leu Gly Gly	Ser		
	365		370		375
Gly Asp Asn Tyr	Arg Gly Gln Gly Ser	Ser Trp Gly Ser Gly	Gly		
	380		385		390
Gly Asp Ala Val	Gly Gly Val Asn Thr	Val Asn Ser Glu Thr	Ser		
	395		400		405

Pro Gly Met Phe Asn Phe Asp Thr Phe Trp Lys Asn Phe Lys Ser
 410 415 420
 Lys Leu Gly Phe Ile Asn Trp Asp Ala Ile Asn Lys Asp Gln Arg
 425 430 435
 Ser Ser Arg Ile Pro
 440

<210> 107
 <211> 918
 <212> DNA
 <213> Homo Sapien

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Gly	Ile	Arg	Ala	Lys 335	Val	Lys	Asn	His	His 340	Val	Pro	Glu	Gln	Leu 345
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Asn Phe Gln Gln Pro Tyr Ile Thr Asn Arg Thr Phe Met Leu Ala
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Ser	Arg	Asn	Ser	Thr	Val	Arg	Tyr	Phe	Asp	Asn	Gly	Thr	Ala	Leu
				215					220					225
Val	Val	Gln	Trp	Asp	His	Val	His	Leu	Gln	Asp	Asn	Tyr	Asn	Leu
				230					235					240
Gly	Ser	Phe	Thr	Phe	Gln	Ala	Thr	Leu	Leu	Met	Asp	Gly	Arg	Ile
				245					250					255
Ile	Phe	Gly	Tyr	Lys	Glu	Ile	Pro	Val	Leu	Val	Thr	Gln	Ile	Ser
				260					265					270
Ser	Thr	Asn	His	Pro	Val	Lys	Val	Gly	Leu	Ser	Asp	Ala	Phe	Val
				275					280					285
Val	Val	His	Arg	Ile	Gln	Gln	Ile	Pro	Asn	Val	Arg	Arg	Arg	Thr
				290					295					300
Ile	Tyr	Glu	Tyr	His	Arg	Val	Glu	Leu	Gln	Met	Ser	Lys	Ile	Thr
				305					310					315
Asn	Ile	Ser	Ala	Val	Glu	Met	Thr	Pro	Leu	Pro	Thr	Cys	Leu	Gln
				320					325					330
Phe	Asn	Arg	Cys	Gly	Pro	Cys	Val	Ser	Ser	Gln	Ile	Gly	Phe	Asn
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Cys	Ser	Trp	Cys	Ser	Lys	Leu	Gln	Arg	Cys	Ser	Ser	Gly	Phe	Asp
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Arg	His	Arg	Gln	Asp	Trp	Val	Asp	Ser	Gly	Cys	Pro	Glu	Glu	Ser
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Lys	Glu	Lys	Met	Cys	Glu	Asn	Thr	Glu	Pro	Val	Glu	Thr	Ser	Ser
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Arg	Thr	Thr	Thr	Thr	Val	Gly	Ala	Thr	Thr	Thr	Gln	Phe	Arg	Val
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Asn	Gly	Ala	Ser	Thr	Asp	Asp	Ser	Ala	Ala	Glu	Lys	Lys	Gly	Gly
				440					445					450
Thr	Leu	His	Ala	Gly	Leu	Ile	Ile	Gly	Ile	Leu	Ile	Leu	Val	Leu
				455					460					465
Ile	Val	Ala	Thr	Ala	Ile	Leu	Val	Thr	Val	Tyr	Met	Tyr	His	His
				470					475					480
Pro	Thr	Ser	Ala	Ala	Ser	Ile	Phe	Phe	Ile	Glu	Arg	Arg	Pro	Ser

	485		490		495
Arg Trp Pro Ala	Met Lys Phe Arg Arg	Gly Ser Gly His Pro	Ala		
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Ser Glu Gln Cys					

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 <211> 4834
 <212> DNA
 <213> Homo Sapien

<220>
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 <223> unknown base

<400> 129
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<211> 354

<212> PRT

<213> Homo Sapien

<400> 130

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Trp	Leu	Ala	Ala	Val	Leu	Leu	Ser	Leu	Cys	Cys	Leu	Leu	Pro	Ser
				20				25					30	
Cys	Leu	Pro	Ala	Gly	Gln	Ser	Val	Asp	Phe	Pro	Trp	Ala	Ala	Val
				35				40					45	
Asp	Asn	Met	Met	Val	Arg	Lys	Gly	Asp	Thr	Ala	Val	Leu	Arg	Cys

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Tyr	Leu	Glu	Asp	Gly	Ala	Ser	Lys	Gly	Ala	Trp	Leu	Asn	Arg	Ser
				65					70					75
Ser	Ile	Ile	Phe	Ala	Gly	Gly	Asp	Lys	Trp	Ser	Val	Asp	Pro	Arg
				80					85					90
Val	Ser	Ile	Ser	Thr	Leu	Asn	Lys	Arg	Asp	Tyr	Ser	Leu	Gln	Ile
				95					100					105
Gln	Asn	Val	Asp	Val	Thr	Asp	Asp	Gly	Pro	Tyr	Thr	Cys	Ser	Val
				110					115					120
Gln	Thr	Gln	His	Thr	Pro	Arg	Thr	Met	Gln	Val	His	Leu	Thr	Val
				125					130					135
Gln	Val	Pro	Pro	Lys	Ile	Tyr	Asp	Ile	Ser	Asn	Asp	Met	Thr	Val
				140					145					150
Asn	Glu	Gly	Thr	Asn	Val	Thr	Leu	Thr	Cys	Leu	Ala	Thr	Gly	Lys
				155					160					165
Pro	Glu	Pro	Ser	Ile	Ser	Trp	Arg	His	Ile	Ser	Pro	Ser	Ala	Lys
				170					175					180
Pro	Phe	Glu	Asn	Gly	Gln	Tyr	Leu	Asp	Ile	Tyr	Gly	Ile	Thr	Arg
				185					190					195
Asp	Gln	Ala	Gly	Glu	Tyr	Glu	Cys	Ser	Ala	Glu	Asn	Asp	Val	Ser
				200					205					210
Phe	Pro	Asp	Val	Arg	Lys	Val	Lys	Val	Val	Val	Asn	Phe	Ala	Pro
				215					220					225
Thr	Ile	Gln	Glu	Ile	Lys	Ser	Gly	Thr	Val	Thr	Pro	Gly	Arg	Ser
				230					235					240
Gly	Leu	Ile	Arg	Cys	Glu	Gly	Ala	Gly	Val	Pro	Pro	Pro	Ala	Phe
				245					250					255
Glu	Trp	Tyr	Lys	Gly	Glu	Lys	Lys	Leu	Phe	Asn	Gly	Gln	Gln	Gly
				260					265					270
Ile	Ile	Ile	Gln	Asn	Phe	Ser	Thr	Arg	Ser	Ile	Leu	Thr	Val	Thr
				275					280					285
Asn	Val	Thr	Gln	Glu	His	Phe	Gly	Asn	Tyr	Thr	Cys	Val	Ala	Ala
				290					295					300
Asn	Lys	Leu	Gly	Thr	Thr	Asn	Ala	Ser	Leu	Pro	Leu	Asn	Pro	Pro
				305					310					315
Ser	Thr	Ala	Gln	Tyr	Gly	Ile	Thr	Gly	Ser	Ala	Asp	Val	Leu	Phe
				320					325					330
Ser	Cys	Trp	Tyr	Leu	Val	Leu	Thr	Leu	Ser	Ser	Phe	Thr	Ser	Ile
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Phe Tyr Leu Lys Asn Ala Ile Leu Gln
350

<210> 131
<211> 823
<212> DNA
<213> Homo Sapien

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<210> 132
<211> 155
<212> PRT
<213> Homo Sapien

<400> 132
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Pro Ser Ser Lys Glu Glu Thr Gln Val Pro Lys Thr Leu Ile Ser
20 25 30
Gly Leu Pro Gly Arg Lys Ser Ser Ser Arg Val Gly Glu Lys Leu
35 40 45

110

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<210> 139

<211> 494

<212> PRT

<213> Homo Sapien

<400> 139

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				20					25					30
Val	Val	Gly	Ala	Gly	Ile	Gly	Gly	Ser	Ala	Val	Ala	His	Phe	Leu
				35					40					45
Gln	Gln	His	Phe	Gly	Pro	Arg	Val	Gln	Ile	Asp	Val	Tyr	Glu	Lys
				50					55					60
Gly	Thr	Val	Gly	Gly	Arg	Leu	Ala	Thr	Ile	Ser	Val	Asn	Lys	Gln
				65					70					75
His	Tyr	Glu	Ser	Gly	Ala	Ala	Ser	Phe	His	Ser	Leu	Ser	Leu	His
				80					85					90
Met	Gln	Asp	Phe	Val	Lys	Leu	Leu	Gly	Leu	Arg	His	Arg	Arg	Glu
				95					100					105
Val	Val	Gly	Arg	Ser	Ala	Ile	Phe	Gly	Gly	Glu	His	Phe	Met	Leu

Glu Glu Thr Asp	Trp Tyr Leu Leu Asn	Leu Phe Arg Leu Trp	Trp
	125	130	135
His Tyr Gly Ile	Ser Phe Leu Arg Leu	Gln Met Trp Val Glu	Glu
	140	145	150
Val Met Glu Lys	Phe Met Arg Ile Tyr	Lys Tyr Gln Ala His	Gly
	155	160	165
Tyr Ala Phe Ser	Gly Val Glu Glu Leu	Leu Tyr Ser Leu Gly	Glu
	170	175	180
Ser Thr Phe Val	Asn Met Thr Gln His	Ser Val Ala Glu Ser	Leu
	185	190	195
Leu Gln Val Gly	Val Thr Gln Arg Phe	Ile Asp Asp Val Val	Ser
	200	205	210
Ala Val Leu Arg	Ala Ser Tyr Gly Gln	Ser Ala Ala Met Pro	Ala
	215	220	225
Phe Ala Gly Ala	Met Ser Leu Ala Gly	Ala Gln Gly Ser Leu	Trp
	230	235	240
Ser Val Glu Gly	Gly Asn Lys Leu Val	Cys Ser Gly Leu Leu	Lys
	245	250	255
Leu Thr Lys Ala	Asn Val Ile His Ala	Thr Val Thr Ser Val	Thr
	260	265	270
Leu His Ser Thr	Glu Gly Lys Ala Leu	Tyr Gln Val Ala Tyr	Glu
	275	280	285
Asn Glu Val Gly	Asn Ser Ser Asp Phe	Tyr Asp Ile Val Val	Ile
	290	295	300
Ala Thr Pro Leu	His Leu Asp Asn Ser	Ser Ser Asn Leu Thr	Phe
	305	310	315
Ala Gly Phe His	Pro Pro Ile Asp Asp	Val Gln Gly Ser Phe	Gln
	320	325	330
Pro Thr Val Val	Ser Leu Val His Gly	Tyr Leu Asn Ser Ser	Tyr
	335	340	345
Phe Gly Phe Pro	Asp Pro Lys Leu Phe	Pro Phe Ala Asn Ile	Leu
	350	355	360
Thr Thr Asp Phe	Pro Ser Phe Phe Cys	Thr Leu Asp Asn Ile	Cys
	365	370	375
Pro Val Asn Ile	Ser Ala Ser Phe Arg	Arg Lys Gln Pro Gln	Glu
	380	385	390
Ala Ala Val Trp	Arg Val Gln Ser Pro	Lys Pro Leu Phe Arg	Thr
	395	400	405

Gln	Leu	Lys	Thr	Leu	Phe	Arg	Ser	Tyr	Tyr	Ser	Val	Gln	Thr	Ala
				410					415					420
Glu	Trp	Gln	Ala	His	Pro	Leu	Tyr	Gly	Ser	Arg	Pro	Thr	Leu	Pro
				425					430					435
Arg	Phe	Ala	Leu	His	Asp	Gln	Leu	Phe	Tyr	Leu	Asn	Ala	Leu	Glu
				440					445					450
Trp	Ala	Ala	Ser	Ser	Val	Glu	Val	Met	Ala	Val	Ala	Ala	Lys	Asn
				455					460					465
Val	Ala	Leu	Leu	Ala	Tyr	Asn	Arg	Trp	Tyr	Gln	Asp	Leu	Asp	Lys
				470					475					480
Ile	Asp	Gln	Lys	Asp	Leu	Met	His	Lys	Val	Lys	Thr	Glu	Leu	
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